

Title (en)
MIXER

Title (de)
MIXER

Title (fr)
MIXEUR

Publication
EP 3369995 A1 20180905 (EN)

Application
EP 17159008 A 20170302

Priority
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Abstract (en)
A mixer (7) comprising a housing (10), a duct (11) within the housing (10), a first and a second injector (12, 13) arranged to inject a fluid at a centre zone (18) of the duct (11), a third and a fourth injector (14, 15) arranged to inject the fluid at a wall zone (17) of the duct (11). The first/third injectors (12) are at a distance $D1 = v/2f$ 1 or odd integer multiples of it from the second/fourth injectors (13) in the absence of an acoustic node between them, or at a distance $D1 = n \cdot v/2f$ 1 or full wave length integer multiples of it in the presence of an acoustic node between them. Advantageously f_1 is greater than f_2 .

IPC 8 full level
F23R 3/00 (2006.01)

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Citation (search report)
• [A] EP 3037728 A1 20160629 - ALSTOM TECHNOLOGY LTD [CH]
• [A] EP 3037726 A1 20160629 - ALSTOM TECHNOLOGY LTD [CH]
• [A] EP 3037725 A1 20160629 - ALSTOM TECHNOLOGY LTD [CH]

Cited by
EP4019840A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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EP 3369995 A1 20180905; **EP 3369995 B1 20200805**; CN 108534137 A 20180914; CN 108534137 B 20210924; US 11454398 B2 20220927; US 2018252412 A1 20180906; US 2021172606 A1 20210610

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